

ARTICLE 2. MEDICAL DIRECTION; ALS BASE HOSPITAL CERTIFICATION

Section

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ARTICLE 2. MEDICAL DIRECTION; ALS BASE HOSPITAL CERTIFICATION

R9-25-205. On-line Medical Director Qualifications and Responsibilities (A.R.S. §§ 36-2202(A)(3) and (A)(4), 36-2204(5), (6), and (7), and 36-2204.01)

- A.** An individual shall not act as an on-line physician unless the individual:
1. Is a physician; and
 2. Meets one of the following:
 - a. Has emergency medicine certification from a specialty board recognized by the Arizona Medical Board or the Arizona Board of Osteopathic Examiners in Medicine and Surgery;
 - b. Has completed an emergency medicine residency training program accredited by the Accreditation Council for Graduate Medical Education or approved by the American Osteopathic Association; or
 - c. Is practicing emergency medicine and has:
 - i. Proficiency in advanced emergency cardiac life support,
 - ii. Proficiency in advanced trauma life support, and
 - iii. Proficiency in pediatric emergency care.
- B.** An individual shall act as an on-line physician only on behalf of:
1. An emergency medical services provider,
 2. An ambulance service,
 3. An ALS base hospital certified under this Article, or
 4. A centralized medical direction communications center.
- C.** An on-line physician shall give on-line medical direction to an EMT:
1. As required under A.R.S. Title 36, Chapter 21.1 and 9 A.A.C. 25;
 2. Consistent with the EMT's scope of practice as identified under Article 5 of this Chapter;
 3. Consistent with treatment protocols, triage protocols, and communication protocols approved by the EMT's administrative medical director; and
 4. Consistent with medical recordkeeping, medical reporting, and prehospital incident history report requirements approved by the EMT's administrative medical director.
- D.** An on-line physician may allow an individual acting under the supervision of the on-line physician to relay on-line medical direction, if the individual is:
1. A physician;
 2. ~~Licensed under A.R.S. Title 32, Chapter 15 or Chapter 25; or~~ A physician assistant,
 3. A registered nurse practitioner,
 4. A registered nurse,

- 5. A practical nurse, or
- ~~3-6.~~ An EMT-I or EMT-P.

ARTICLE 3. TRAINING PROGRAMS

R9-25-305. Arizona EMT-B Course (Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))

- A.** “Arizona EMT-B course” means the United States Department of Transportation, National Highway Traffic Safety Administration, Emergency Medical Technician-Basic: National Standard Curriculum (1994);
- 1. Incorporated by reference and on file with the Department and the Office of the Secretary of State, including no future editions or amendments; and available from the National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590; from the Department’s Bureau of Emergency Medical Services and Trauma System; and on the internet at ~~http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm~~ http://www.nhtsa.gov by going to the Quick Link for Emergency Medical Services Program;
 - 2. Modified in subsection (B); and
 - 3. Provided by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- B.** The Arizona EMT-B course is modified as follows:
- 1. No more than 24 students shall be enrolled in each session of the course;
 - 2. The following prerequisites are required:
 - a. Prerequisites identified in the course introductory materials under the heading “Prerequisites”; and
 - b. Prerequisites listed for lessons 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 2-1, 2-2, 2-3, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 6-1, 6-2, 6-3, 7-1, 7-2, 7-3, and 7-4;
 - 3. The minimum course length is 110 contact hours;
 - 4. Modules 1 through 7 are required;
 - 5. Module 8 is deleted;
 - 6. EMS equipment listed for lessons 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 2-1, 2-2, 2-3, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-8, 3-9, 3-10, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 6-1, 6-2, 6-3, 7-1, 7-2, 7-3, and 7-4 is required and shall be available before the start of each course session and during the course session as needed to meet the needs of each student enrolled in the course session;

7. Facility recommendations identified in the course introductory materials under the headings “Environment” and “Facilities” are requirements;
8. In addition to modules 1 through 7, the course shall also contain additional instruction and skills training in:
 - a. Blood glucose monitoring that provides information and hands-on training on the equipment and procedures necessary to evaluate blood sugar levels, ~~and~~
 - b. Intravenous monitoring that provides information and hands-on training on transporting a patient with an established intravenous or patient controlled analgesic pump-; and
 - c. Administration of epinephrine by auto-injector, including:
 - i. The epidemiology and physiology of anaphylaxis and allergic reaction;
 - ii. Common methods of entry of substances into the body;
 - iii. Common antigens most frequently associated with anaphylaxis;
 - iv. Physical examination of patients with complaints associated with anaphylaxis or allergic reaction;
 - v. Signs and symptoms of anaphylaxis, allergic reaction, and respiratory distress associated with anaphylaxis;
 - vi. Differentiating between anaphylaxis and other medical conditions that may mimic anaphylaxis;
 - vii. The following information about epinephrine by auto-injector:
 - (1) Class,
 - (2) Mechanism of action,
 - (3) Indications and field use,
 - (4) Contraindications,
 - (5) Adverse reactions,
 - (6) Incompatabilities and drug reactions,
 - (7) Adult and pediatric dosages,
 - (8) Route and method of administration,
 - (9) Onset of action,
 - (10) Peak effects,
 - (11) Duration of action,
 - (12) Dosage forms and packaging,
 - (13) Minimum supply requirements under R9-25-503,
 - (14) Special considerations, and

- (15) Proper storage conditions; and
 - viii. A practical skills demonstration of competency in administering epinephrine by auto-injector;
- 9. A final closed book written course examination is required and shall:
 - a. Include 150 multiple-choice questions with one absolutely correct answer, one incorrect answer, and two distractors, neither of which is “all of the above” or “none of the above”;
 - b. Cover the learning objectives of the course with representation from each of the course modules; and
 - c. Require a passing score of 75% or better in no more than three attempts; and
- 10. A final comprehensive practical skills examination is required and shall:
 - a. Evaluate a student’s technical proficiency in skills identified in Appendix H; and
 - b. Enable a student to meet NREMT-Basic registration requirements.
- C. A training program certified under this Article or an ALS base hospital providing a course as authorized under R9-25-210(C) may combine the students from more than one Arizona EMT-B course session for didactic instruction.

R9-25-306. Arizona EMT-B Refresher, Arizona EMT-B Refresher Challenge Examination (Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))

- A. “Arizona EMT-B refresher” means the United States Department of Transportation, National Highway Traffic Safety Administration, Emergency Medical Technician: Basic Refresher Curriculum Instructor Course Guide, (1996);
 - 1. Incorporated by reference and on file with the Department, including no future editions or amendments; and available from the National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590; from the Department’s Bureau of Emergency Medical Services and Trauma System; and on ~~the internet at~~ <http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm> ~~<http://www.nhtsa.gov>~~ by going to the Quick Link for Emergency Medical Services Program;
 - 2. As modified in subsection (B); and
 - 3. Provided by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- B. The Arizona EMT-B refresher is modified as follows:
 - 1. No more than 32 students shall be enrolled in each session of the course;
 - 2. The minimum admission requirements are:
 - a. One of the following:

- i. Current EMT-B or higher level certification in this state or certification, recertification, or licensure at the basic emergency medical technician level or higher level in any other state or jurisdiction;
 - ii. Current NREMT-Basic or higher level registration; or
 - iii. Being required by NREMT to complete the Arizona EMT-B refresher to become eligible to seek NREMT-Basic registration; and
- b. Proficiency in cardiopulmonary resuscitation;
- 3. The minimum course length is 24 contact hours;
- 4. Modules 1 through 6 are required;
- 5. EMS equipment listed for Modules II, III, IV, V, and VI is required and shall be available before the start of each course session and during the course session as needed to meet the needs of each student enrolled in the course session;
- 6. Facility recommendations identified for the Arizona EMT-B course are requirements;
- 7. The course shall include instruction on administration of epinephrine by auto-injector that meets the requirements described in R9-25-305(B)(8)(c);
- ~~7.8.~~ For a student who has not completed the Arizona EMT-B course, the course shall contain additional instruction and skills training in:
 - a. Blood glucose monitoring that provides information and hands-on training on the equipment and procedures necessary to evaluate blood sugar levels, and
 - b. Intravenous monitoring that provides information and hands-on training on transporting a patient with an established intravenous or patient controlled analgesic pump;
- ~~8.9.~~ A final closed book written course examination is required and shall:
 - a. Include 150 multiple-choice questions with one absolutely correct answer, one incorrect answer, and two distractors, neither of which is “all of the above” or “none of the above”;
 - b. Cover the learning objectives of the course with representation from each of the course modules; and
 - c. Require a passing score of 75% or better in no more than three attempts; and
- ~~9.10.~~ A final comprehensive practical skills examination is required and shall:
 - a. Evaluate a student’s technical proficiency in skills identified as psychomotor objectives in modules 1 through 6; and
 - b. Enable a student to meet NREMT-Basic registration or reregistration requirements.

- C.** “Arizona EMT-B refresher challenge examination” means competency testing prescribed in the Arizona EMT-B refresher that is administered by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- D.** The Arizona EMT-B refresher challenge examination shall consist of:
1. The EMT-B refresher final written course examination, required in subsection (B)(8); and
 2. The EMT-B refresher final comprehensive practical skills examination, required in subsection (B)(9).
- E.** A training program certified under this Article or an ALS base hospital providing a course as authorized under R9-25-210(C) may combine the students from more than one Arizona EMT-B refresher session for didactic instruction.

R9-25-307. Arizona EMT-I Course (Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))

- A.** “Arizona EMT-I course” means the United States Department of Transportation, National Highway Traffic Safety Administration, EMT-Intermediate: National Standard Curriculum (1999);
1. Incorporated by reference and on file with the Department, including no future editions or amendments; and available from the National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590; from the Department’s Bureau of Emergency Medical Services and Trauma System; and on the internet at ~~http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm~~ http://www.nhtsa.gov by going to the Quick Link for Emergency Medical Services Program;
 2. As modified in subsection (B); and
 3. Provided by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- B.** The Arizona EMT-I course is modified as follows:
1. No more than 24 students shall be enrolled in each session of the course;
 2. Prerequisites identified in the course introductory materials under the headings “The EMT-Intermediate: National Standard Curriculum” and “Prerequisites” are required;
 3. The minimum course length is 400 contact hours, including:
 - a. A minimum of 280 contact hours of didactic instruction and practical laboratory, and
 - b. A minimum of 120 contact hours of clinical training and field training;
 4. Modules 1 through 7 are required;

5. EMS equipment required for the course is listed in Exhibit A of this Article and shall be available before the start of each course session and during the course session as needed to meet the needs of each student enrolled in the course session;
 6. Facility recommendations identified in the course introductory materials under the headings “EMT-Intermediate Education,” “Program Evaluation,” and “Facilities” are requirements;
 7. A final closed book written course examination is required and shall:
 - a. Include 150 multiple-choice questions with one absolutely correct answer, one incorrect answer, and two distractors, neither of which is “all of the above” or “none of the above”;
 - b. Cover the learning objectives of the course with representation from each of the course modules; and
 - c. Require a passing score of 75% or better in no more than three attempts; and
 8. A final comprehensive practical skills examination is required and shall:
 - a. Evaluate a student’s technical proficiency in skills identified as psychomotor objectives in modules 1 through 7; and
 - b. Enable a student to meet NREMT-Intermediate registration requirements.
- C. A training program certified under this Article or an ALS base hospital providing a course as authorized under R9-25-210(C) may combine the students from more than one Arizona EMT-I course session for didactic instruction.
- R9-25-308. Arizona EMT-P Course (Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))**
- A. “Arizona EMT-P course” means the United States Department of Transportation, National Highway Traffic Safety Administration, EMT-Paramedic: National Standard Curriculum (1998);
1. Incorporated by reference and on file with the Department, including no future editions or amendments; and available from the National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590; from the Department’s Bureau of Emergency Medical Services and Trauma System; and on the internet at ~~http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm~~ http://www.nhtsa.gov by going to the Quick Link for Emergency Medical Services Program;
 2. As modified in subsection (B); and
 3. Provided by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- B. The Arizona EMT-P course is modified as follows:

1. No more than 24 students shall be enrolled in each session of the course;
2. The following course prerequisites are required:
 - a. Prerequisites identified in the course introductory materials under the heading “The EMT-Paramedic: National Standard Curriculum, Prerequisites”; and
 - b. Completion of a minimum of 24 clock hours of hazardous materials training that meets the requirements of the National Fire Protection Association’s, NFPA 472: Standard for Professional Competence of Responders to Hazardous Materials Incidents, 2002 Edition; Competencies for First Responders at the Operational Level; incorporated by reference and on file with the Department, including no future editions or amendments; and available from the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-747 and from the Department’s Bureau of Emergency Medical Services and Trauma System;
3. The minimum course length is 1000 contact hours, including:
 - a. A minimum of 500 contact hours of didactic instruction and practical laboratory, and
 - b. A minimum of 500 contact hours of clinical training and field training.
4. Modules 1 through 8 are required;
5. Equipment required for the course is listed in Exhibit A and shall be available before the start of each course session and during the course session as needed to meet the needs of each student enrolled in the course session;
6. Facility recommendations on page 32 of the introductory material are requirements;
7. Each student shall complete the competencies in Exhibit C during clinical training and field training;
- ~~7.8.~~ A final closed book written course examination is required and shall:
 - a. Include 150 multiple-choice questions with one absolutely correct answer, one incorrect answer, and two distractors, neither of which is “all of the above” or “none of the above”;
 - b. Cover the learning objectives of the course with representation from each of the course modules; and
 - c. Require a passing score of 75% or better in no more than three attempts; and
- ~~8.9.~~ A final comprehensive practical skills examination is required and shall:
 - a. Evaluate a student’s technical proficiency in skills identified as psychomotor objectives in modules 1 through 8; and
 - b. Enable a student to meet NREMT-Paramedic registration requirements.

- C. A training program certified under this Article or an ALS base hospital providing a course as authorized under R9-25-210(C) may combine the students from more than one Arizona EMT-P course session for didactic instruction.

R9-25-309. Arizona ALS Refresher; Arizona ALS Refresher Challenge Examination

(Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))

- A. “Arizona ALS refresher” means the U.S. Department of Transportation, National Highway Traffic Safety Administration, EMT-Paramedic: NSC Refresher Curriculum (2001):
1. Incorporated by reference and on file with the Department, including no future editions or amendments; and available from the National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590; from the Department’s Bureau of Emergency Medical Services and Trauma System; and on the internet at ~~http://www.nhtsa.dot.gov/people/injury/ems/nsc.htm~~ http://www.nhtsa.gov by going to the Quick Link for Emergency Medical Services Program;
 2. As modified in subsection (B); and
 3. Provided by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- B. The Arizona ALS refresher is modified as follows:
1. No more than 32 students shall be enrolled in each session of the course;
 2. The minimum admission requirements are:
 - a. One of the following:
 - i. Current certification as an EMT-I(99) or EMT-P in this state or certification, recertification, or licensure at the intermediate emergency medical technician level or paramedic level in any other state or jurisdiction;
 - ii. Current NREMT-Intermediate or NREMT-Paramedic registration; or
 - iii. Being required by NREMT to complete the Arizona ALS refresher to become eligible to seek NREMT-Intermediate or NREMT-Paramedic registration; and
 - b. Proficiency in cardiopulmonary resuscitation and proficiency in advanced emergency cardiac life support;
 3. The minimum course length is 48 contact hours;
 4. Modules 1 through 6 are required;
 5. For a student at the intermediate emergency medical technician level, lessons, tasks, and objectives shall not exceed the intermediate emergency medical technician skill level;

6. Equipment required for the course is listed in Exhibit A and shall be available before the start of each course session and during the course session as needed to meet the needs of each student enrolled in the course session;
 7. Facility recommendations identified for the Arizona EMT-P course are requirements;
 8. A final closed book written course examination is required and shall:
 - a. Include 150 multiple-choice questions with one absolutely correct answer, one incorrect answer, and two distractors, neither of which is “all of the above” or “none of the above”;
 - b. Cover the learning objectives of the course with representation from each of the course modules; and
 - c. Require a passing score of 75% or better in no more than three attempts; and
 9. A final comprehensive practical skills examination is required and shall:
 - a. Evaluate a student’s technical proficiency in skills identified as psychomotor objectives in modules 1, 2, 4, 5, and 6; and
 - b. Enable a student to meet NREMT-Intermediate or NREMT-Paramedic registration or reregistration requirements.
- C.** “Arizona ALS refresher challenge examination” means competency testing prescribed in the Arizona ALS refresher that is administered by a training program certified under this Article or by an ALS base hospital authorized under R9-25-210(C).
- D.** The Arizona ALS refresher challenge examination shall consist of:
1. The ALS refresher final written course examination, required in subsection (B)(8); and
 2. The ALS refresher final comprehensive practical skills examination, required in subsection (B)(9).
- E.** A training program certified under this Article or an ALS base hospital providing a course as authorized under R9-25-210(C) may combine the students from more than one Arizona ALS refresher session for didactic instruction.

**Exhibit C. Arizona EMT-P Course and Arizona EMT-I(99)-to-EMT-P Transition Course
Clinical Training and Field Training Competencies**

A. PSYCHOMOTOR SKILLS

1. **The student shall demonstrate the ability to safely administer agents:** The student shall safely, and while performing all steps of each procedure, properly administer agents at least 10 times to live patients.

2. The student shall demonstrate the ability to safely perform endotracheal intubation:

The student shall safely, and while performing all steps of each procedure, successfully intubate at least one live patient or cadaver.

3. The student shall demonstrate the ability to safely gain venous access in all age

group patients: The student shall safely, and while performing all steps of each procedure, successfully access the venous circulation at least 17 times on live patients of various age groups.

4. The student shall demonstrate the ability to effectively ventilate unintubated

patients of all age groups: The student shall effectively, and while performing all steps of each procedure, ventilate at least 12 unintubated live patients.

B. AGES

1. The student shall demonstrate the ability to perform a comprehensive assessment on

pediatric patients: The student shall perform a comprehensive patient assessment on at least 20 pediatric patients, including newborns, infants, toddlers, and school-age.

2. The student shall demonstrate the ability to perform a comprehensive assessment on

adult patients: The student shall perform a comprehensive patient assessment on at least 20 adult patients of various age groups, including young, middle, and older patients.

C. PATHOLOGIES

1. The student shall demonstrate the ability to perform a comprehensive assessment on

obstetric patients: The student shall perform a comprehensive patient assessment on at least 5 obstetric patients.

2. The student shall demonstrate the ability to perform a comprehensive assessment on

trauma patients: The student shall perform a comprehensive patient assessment on at least 20 trauma patients.

3. The student shall demonstrate the ability to perform a comprehensive assessment on

behavioral patients: The student shall perform a comprehensive patient assessment on at least 10 behavioral patients.

D. CHIEF COMPLAINTS

1. The student shall demonstrate the ability to perform a comprehensive assessment on

and formulate and implement a treatment plan for patients with chest pain: The student shall perform a comprehensive patient assessment on and formulate and implement a treatment plan for at least 20 patients with chest pain.

2. **The student shall demonstrate the ability to perform a comprehensive assessment on and formulate and implement a treatment plan for patients with dyspnea/respiratory distress:**
 - a. The student shall perform a comprehensive patient assessment on and formulate and implement a treatment plan for at least 15 adult patients with dyspnea or respiratory distress; and
 - b. The student shall perform a comprehensive patient assessment on and formulate and implement a treatment plan for at least 5 pediatric patients, including infants, toddlers, and school-age, with dyspnea or respiratory distress.
3. **The student shall demonstrate the ability to perform a comprehensive assessment on and formulate and implement a treatment plan for patients with abdominal complaints:** The student shall perform a comprehensive patient assessment on and formulate and implement a treatment plan for at least 15 patients with abdominal complaints such as abdominal pain, nausea or vomiting, gastrointestinal bleeding, and gynecological complaints.
4. **The student shall demonstrate the ability to perform a comprehensive assessment on and formulate and implement a treatment plan for patients with altered mental status:** The student shall perform a comprehensive patient assessment on and formulate and implement a treatment plan for at least 15 patients with altered mental status.

E. TEAM LEADER SKILLS

The student shall demonstrate the ability to serve as a team leader in a variety of prehospital emergency situations: The student shall serve as the team leader for at least 25 prehospital emergency responses.